

Detailed List of Changes  
Kentucky Minimum Specifications for School Buses  
Revised 2013

Page 11. Add sentence to clarify diagnostics package to include the ability to force a regeneration of the diesel particulate filter.

### **SERVICE MANUALS**

Body and/or chassis suppliers, including integral suppliers, shall provide each school district purchasing school buses with one complete set of the most current service manuals available or access to them electronically at no additional cost during the life of the bus including: Body, Chassis, Engine, Wiring locator, and Body parts manuals at no additional cost. Body and/or chassis suppliers shall also supply one copy of the first level diagnostic software for the engine, brakes and transmission or access to them at no additional cost during the life of the bus. The engine diagnostics package shall include the ability to force a regeneration using the diagnostic software if a forced regeneration on the diesel particulate filter using the diagnostic software if a regeneration button is not present. Body and chassis suppliers shall provide a downloadable version at the local district's request. Manuals and software shall be shipped on the basis of one complete set per school district with the bus invoice, prior to delivery of the completed school bus. If the new bus data port is incompatible with the previous year's data cables the vendor shall supply new cables on the basis of one complete cable per school district.

Page 23. Engine section. Add provision for oil filter accessibility.

(4) The oil filter shall be a minimum two (2) quart capacity. (1.79 quart net capacity) The oil filter shall be accessible for service without the use of special tools.

Page 24 – Add sentence to clarify the need to have the ability to do a forced regeneration on the vehicle diesel particulate filter.

### **EXHAUST SYSTEM**

A total exhaust system, exhaust pipe, muffler and tailpipe shall be furnished by the chassis manufacturer, all routing to or through the bumper shall be manufactures standard for rear exhaust evacuation. The system shall be warranted for five years.~~If~~ A manual regeneration mode is shall be included in the system. The control for the start of this system shall be designed or located to be accessible to a technician but not the driver. The Control shall be ether a manual switch in the electrical control panel or a start switch in the first line diagnostic program provided by the vendor. This requires the ability to force regeneration on the vehicle diesel particulate filter when the sensors indicate it is required.

Page 30. Add the option for a 72 passenger type C bus equipped with an Allison Automatic PTS2500 Transmission.

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The following engines shall be equipped with the following automatic transmissions:

Engine	Horsepower	Capacity	Transmission	Standard/Option
INTERNATIONAL DT466E	190	34-52	PTS2500	STANDARD
INTERNATIONAL DT466E	215	66	PTS2500	STANDARD
INTERNATIONAL DT466E	215	66	PTS3000	OPTION
INTERNATIONAL DT466E	215	72-C	PTS3000	STANDARD
<b>INTERNATIONAL DT466E</b>	<b>215</b>	<b>72-C</b>	<b>PTS2500</b>	<b>OPTION</b>
INTERNATIONAL DT466E	215	70-78 FC	PTS3000	STANDARD
INTERNATIONAL DT466E	230-250	78-84 RE	PTS3000	STANDARD
CUMMINS ISB	190	34-52	PTS2500	STANDARD
CUMMINS ISB	210	66	PTS2500	STANDARD
CUMMINS ISB	210	66	PTS3000	OPTION
CUMMINS ISB	210	72-C	PTS3000	STANDARD
<b>CUMMINS ISB</b>	<b>210</b>	<b>72C</b>	<b>PTS2500</b>	<b>OPTION</b>
CUMMINS ISB	210	70-78 FC	PTS3000	STANDARD
CUMMINS ISB	230-250	78-84 RE	PTS3000	STANDARD

Transmissions shall be equipped with an automatic backup light switch. The chassis manufacturer shall be responsible for matching the transmission ratios, with respective engines within design parameters of the school bus operation.

Page 42. Add sentence to the Emergency Door Section. Require additional protection to keep the rear emergency door from swinging too far and breaking the glass in the bottom panel.

The emergency door opening at floor level shall be constructed to provide a recessed seal. No seal extending above the floor line will be acceptable. The emergency door shall be held open in accordance with FMVSS 217, and shall be subject to the approval of the Pupil Transportation Branch at the pilot inspection. **In addition, the door's maximum swing shall be limited to 130 degrees by the use of welting or strapping fastened to the door frame and the door.** Door hinges shall have threaded grease fittings or an enclosed hinge designed to resist corrosion.

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Page 51 Add additional vendor to supplier list.

STEP COVERING

Steps shall be covered with first quality, specially processed step covering material, Koroseal pebble top, Blue #71; RCA Rubber, Apex, Color #702; **SMI Studded Step flooring Color #702**, or approved equal. Step covering material shall have non-skid characteristics. The step covering shall have a contrasting white, turndown nosing. The lip of the turndown shall be molded in an approximate 90° shape and shall be an integral part of the tread. Pebble pattern-shall extend to the leading edge of the nosing on all but the top step and shall have corrosion and impact resistant polymeric or galvanized metal backing.

Page 60 Change in part number.

STOP SIGNAL ARM

Each school bus body shall be equipped with a stop arm meeting SAE Standard J1133. The location of the stop arm requires prior approval from the Pupil Transportation Branch and shall be:

1. Air-operated, SMC **297080 series** with wind guard and high intensity school decal or approved equal, or
2. Electric operated Transpec Model 6100 series with wind guard and high intensity school decal or approved equal.

The lights on these stop arms shall be strobing LED.

Air-operated stop arms shall be installed on all chassis equipped with air brakes. An air-operated or electric-operated stop arm may be installed on all school bus chassis with hydraulic brakes.

Page 88 Adds 2 additional options for lift supplier.

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**ELECTRO-HYDRAULIC LIFT**

Type "C" thirty-four (34) through sixty-six (66) passenger and type "A" twenty-two (22) passenger school buses may be equipped with an electro-hydraulic lift.

Thirty-four (34) through sixty-six (66) passenger body shells shall be equipped with a Braun Millennium series hydraulic lift Model L917IB standard. Local districts may request or Ricon S series S5510 or MaxonWL7 version C.

The above-mentioned lifts shall be rated at a minimum eight hundred (800) pounds working capacity, be equipped with a pressure relief switch for ground contact, and have automatic positioning at the floor level. The successful bidder (Braun, Ricon, Maxon) shall provide factory support on an as need basis and up to five training classes for technicians during the contract period.

The controls pennant shall be mounted and accessible to the operator from the outside of the bus. It shall be protected by a re-settable circuit breaker within the lift manufacturer's specifications. The outside vertical post shall be padded to below barrier height. The platform shall be thirty-inches wide at a minimum, with the power provided through the ignition switch energizing a separate solenoid (White-Rogers 123-105-211 or Prestolite 28308. The solenoid on all twenty-four (24)-passenger buses shall be located under the hood. A ground cable shall be installed from the lift frame to the vehicle frame of the bus.

Page 112. Add section to allow the installation of Universal Child Restraint Anchorage (UCRA) seats at the local districts option.

**UCRA SEATS**

When Universal Child Restraint Anchorage (UCRA) seats are installed on a Kentucky School Bus they shall be placed in such a way as to eliminate the possibility that a seat back will be double loaded. On all buses equipped with a left side emergency door, the UCRA seats shall be installed forward of the left side emergency door beginning from the rear seated position to the front seated position of the bus.

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Buses **not** equipped with a left side emergency door (34 and 52 passenger shell size) shall have the UCRA seats installed from rear to front. Local district personnel will load the students from the rear positioned UCRA seat forward and insure that no unrestrained passenger is seated behind a restrained passenger unless a barrier is present to avoid seat back double loading.

ALL UCRA seats shall be available for purchase by school districts as a local school district purchase option.

Vendors installing this option shall submit a floor plan to the Department of Education for approval prior to accepting the order.